RAW SEQUENCE LISTING

Neur

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/560, 652 _____
Source: _____ IFWP _____
Date Processed by STIC: _____ 12/28/2005 _____

ENTERED

JFWP

RAW SEQUENCE LISTING   DATE: 12/28/2005
PATENT APPLICATION: US/10/560,652   TIME: 12:58:44

                Input Set : A:\SEQLIST532792000800.txt
                Output Set: N:\CRF4\12282005\J560652.raw

    4 <110> APPLICANT: Chory, Joanne
    5   Cerdan, Pablo D.
    7 <120> TITLE OF INVENTION: REGULATION OF FLOWERING TIME BY THE PFT1
    8   LOCUS
   10 <130> FILE REFERENCE: 532792000800
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/560,652
C--> 12 <141> CURRENT FILING DATE: 2005-12-13
   12 <150> PRIOR APPLICATION NUMBER: PCT/US2004/018902   (pg-6)
   13 <151> PRIOR FILING DATE: 2004-06-12
   15 <150> PRIOR APPLICATION NUMBER: US 60/478,684
   16 <151> PRIOR FILING DATE: 2003-06-13
   18 <160> NUMBER OF SEQ ID NOS: 17
   20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
   22 <210> SEQ ID NO: 1
   23 <211> LENGTH: 8040
   24 <212> TYPE: DNA
   25 <213> ORGANISM: Arabidopsis thaliana
   27 <400> SEQUENCE: 1
   28 agtggttgag aatctgcagc cttaggtttc tccttttgaa acggttgaaa cgcaccagcg 60
   29 ctgcgtttga cttcaattac catcggtttc ttattattag gttgtggatc tggtgattgg 120
   30 ttccacaatt gaacagatct aagccaatcc gatttcttct tatcaccatc gttattttca 180
   31 ttggtcatca tctcagtttt ctcagcttct tcatctttat cggtttcatc agatgaagca 240
   32 gaactccact tgattggcat aaactcttca aacacggcac cgccgcattc actagttgtc 300
   33 cgctcagaac attctgactg gccgccaaca tgttctgaag attccgataa ctccttccga 360
   34 catgactcga tagctacaag aatgatatgt aaacaattaa gaaactggaa gcgatcgtga 420
   35 aaacgaagaa tatatatatc aaaagaggat gtgtaataac attaccttgg gttacaagtt 480
   36 ctaaacataa agggagctca cgttgaaaga cttgaatctt tttttgttct tcttctagag 540
   37 cttctacata ttcgtgacat ctcttcattt tctgggtgta atccatgtca ccgctcttga 600
   38 acatcatcat tatgaacaga tcttagactc gtttttgcta tgagttacag ttacgaaaac 660
   39 ataaatcttg agagagacag agaagagttt tggatctaaa atgagagaga aaggataaaa 720
   40 ctttgacgtt tttaagttgg aagtttttaaa gggcagagaa agaggattgg tgtctaatcg 780
   41 aggtcgggcc gtcgcgtacc taaaaccgaa tcttcttgat gtttagattt attcggattt 840
   42 tacttgggaa agggtagaat ggtaaatata ggaataggct gaggtttgtt tgatacaggg 900
   43 agaatattcg gggatatgtg gattccttcc tttccatatt ctatcgagct ggcgatgatg 960
   44 tcagcattct catgacgttg acgttgagat aagaacgacg agtcattta gtcattacta 1020
   45 actctttctt ttttcttcgg ttattctcta cctattttag aaatatacac atgaattttt 1080
   46 ttgtaataac aaacgagtga agaagaatat ccatagagat tggaatcaag atatgtaacc 1140
   47 agaaaatttt aaacattcat taaatttaca gttagaata tattatatgg tatcatatca 1200
   48 taaattacat ttttatcaga aaagaaaaag ataagaagt ttttggcaaa agtggaggaa 1260
   49 tattcctcga gagtaggga gaaactaagc tggaaaaaaa catattaaat tggaaaaaat 1320
   50 tgggaaggag agaatctttg gaagagtgac attcacacat atccagatcc ccccgttccc 1380
   51 tcatgaattg ttaaattttg gcccttcacg ctatcgaaga gccacctgcc ccatatcaca 1440
   52 ccaacctact cgcctctttt cacgcgcttc attgtgtgtt gttgtgttgt gatatattca 1500

RAW SEQUENCE LISTING   DATE: 12/28/2005
PATENT APPLICATION: US/10/560,652   TIME: 12:58:44

Input Set : A:\SEQLIST532792000800.txt
Output Set: N:\CRF4\12282005\J560652.raw

```
 53 agcaattctc gtgaatacct gacgattcta aattggttgg cgacaaaaac acacacaaaa 1560
 54 aaacacacac tataaaacgg aattaagtgt ctaattttga gtatgtattc ttgagaaaat 1620
 55 ttctctaaat agtttggaga ttgaggtttt tgtactgtct gctacggtta ccaaactgta 1680
 56 gaaactattg tgtatcaata attaaatttg gatttttaag gacaattgta aaagcttata 1740
 57 actaggtgat ggattgagtt gtggtaaagt caaattgttc gagaggtcgt aaacagtgag 1800
 58 aagcaattta aggaagatga taattattca tttgtgatgg tttctttgag ttatggtctt 1860
 59 atggataatg tccatggatg tgaagaccac caacattgta ttagataaaa aaaaactacc 1920
 60 acgtgaaaag tagttgattt tgggttctca tgacttctca caaactcacg tttccatagc 1980
 61 attgcatggc aatttacaat gtgttgcccc tcccttagta ctaccaatac taccatatga 2040
 62 acaacgatcg ggatcagcaa aatctatagc tttgtagccg tcttctatga ctcatctctt 2100
 63 ccacaaaaag tcattgacat caactagtct aagatgactg acatacgaaa ttggatccta 2160
 64 ttttccacta ggccactctg aaaagaaaaa aacacagata aaaaggccat gcggcccatg 2220
 65 tccaactttt ggaccaatct taaatggcct tcacaatggt tatcatggcc tttatttgat 2280
 66 tcaagtctgg actaactaca actatgtata caaaatgttt atccacatag cccaaaataa 2340
 67 gatatcaaat tggttacttt catttttttt tacgtgatcg accttaagct tgttgttagt 2400
 68 tttggcgttc gatgaaccac ctccaaacca attatattct tcacaagatt ctctgcattt 2460
 69 atcccacaga tggtaaacaa tctaatcaaa ttaaattcac ttcttcacca aaaaaaataa 2520
 70 aattaaattc attgcccaat ttacacaaat aaaaagatag taacgaccaa gtcctttgta 2580
 71 tatcccattt tctattcgga gcatccaaac caaattttgt caatctaatt tatcttctcc 2640
 72 tctcccggag aagaaggaaa cttacaattt acaagaacg agcttcaata aaaatttcca 2700
 73 aagaaattac cgtcggcgaa tcgttaggct cgagaagaat caccaaattc caagggggaga 2760
 74 gagactgaat tttcttttga ttcacgtaac aacaacgctc agagactatg tcgtcggagg 2820
 75 tgaaacagct gatcgtcgtt gctgaaggca ccgccgcttt gggtccttat tggcaaacca 2880
 76 tcgtctccga ctatctcgag aaaatcatca ggttttttctt tttatgaacc ttgtatctct 2940
 77 tttaatcctc gttatttgat tttcattcgg agttagggtt tagctgatac cgttcgaatc 3000
 78 aggctttaat ttcaattggt tagatcaaac ctttgtttat cctctgattc cacaatgttt 3060
 79 tgttgttcgt tgttagtact gtgtttatgt atttgattgt tctgtgtttc atattgagca 3120
 80 atcactttac gttaccttat ggttcctaca ttcttttttt gtgttaggac attgttttcg 3180
 81 atacaacgca ttcataaagc aatgaatttg tagtttctca cttcgatcac gtaaaattga 3240
 82 tattaatatg tgattacaga gaatttagta tataattgcc tgtatagttt gtaactaatc 3300
 83 acattgttgg ctattcttaa tatccactca acatagtatt gtatttcaaa gtagcgtttt 3360
 84 tgtatgttaa aatttcaatt acataatctg tctatgcatt ctttgcattt gtccaggtct 3420
 85 ttctgtggca gtgagttaaa tggagaggta ctatatctga cttatcctcg tttttaagtt 3480
 86 tactcaagtt ttcattcttg agcaaacagt taatcaatgt ttttgaccaa actcatatac 3540
 87 attcgttatc tgtcaaatca ttgcgacaca aaaaataaca gagcaaattg gtagtttgat 3600
 88 gtgtctgatc gagtctttat atattcacta aacttgcaga ggaaccctgt ttctactgtt 3660
 89 gagctatcac tggtgatctt caattctcat ggttcatatt gtggtacgtg ttgtgcttca 3720
 90 tcttgtgata tccaaataca aatattattt gggtgctttc tcatggccct ggttacatta 3780
 91 gcttttgttt tagtaatgtt gttcttatct ttcattcttc ttagcttgct tggtacaacg 3840
 92 gagtggctgg acaagggatg ttgatatttt cttgcattgg ctttcttcca tacaatttgg 3900
 93 tggtggtggt ttcaatgagg ttgccacagc tgaagggctt gccgaagcat tgatggtggg 3960
 94 aaacttgatc tcttttcatc tgtgacacaa ctataagaca tatgtttggg ccactttctt 4020
 95 tcaagctact tttgactaat ttactttctc aataaaatta acttttttct ttccatggct 4080
 96 tcattttatg tggtggtgct tctgtcagcg attttctcga tccttaaacc tcacaatttt 4140
 97 ctctgacttc atgacacaga tgttttctcc tccttcaggc caagctcaac caagtaacga 4200
 98 tctgaaaaga cactgtatcc taatcacagc cagcaatcct cacatattgc caacacctgt 4260
 99 atatcgtcca cgattgcaaa atgtggaacg gaatgagaat ggtgatgcgc aagctgagag 4320
100 tcgattatca gatgctgaga cagtggcttc atattttgct aaggtacttt ttttaactga 4380
101 ttcccccagg tattacaact agctataatt actcctttta atgggaaatt actaacctgc 4440
```

```
102 catattggtg tgcagtgttc tgtttctttg tctgttgtat gtccaaagca gcttccaaca 4500
103 attagagcac tatacaatgc ggtgagactg cgtgtctatt tgctattcac tagatgtaca 4560
104 tctatcaaaa gtctttcttt tgtcagacag ctctttcaaa ggctgtcttt attctcaatg 4620
105 ctataaactg gtgtaatctt tgttttatac tgttttaaat gcagggaaag cccaatcaac 4680
106 aaagtgcgga cttgtcaatt gacacggcta agaacacatt ctatcttgtc ctgatctcgg 4740
107 agaattttgt ggaggcatgt gctgccttaa gtcattctgc tacaaatttg ccacagactc 4800
108 agagccctgt gaaagtggac agggccactg ttgctccatc tattccagtc actgggcaac 4860
109 ctccagctcc tgtgtcatca ggttcttcta ctgacaacat ccatttttct tagtccaact 4920
110 atcttgattt ttctttgtgc ttctttggat tctatcctgc ttctctatat gaagatctct 4980
111 ttttgtatga ttttcagcca atggacctat tcagaatcgg caaccagttt ctgttggacc 5040
112 agttccaact gctactgtga aagttgtaag tctatttgat ctttttagtc agttggagga 5100
113 gtcagctcta tctattggca accgactctt gtatgtttta taagaattat ttactagata 5160
114 ttagccgaaa atgaattgta aatttattct ctggtgcttg ataagacatt acaaattttt 5220
115 atgtgttaat caactagatt taatgttaag ttcatatgaa tatcccattt gtgaaataat 5280
116 attgtatact caatcagctt attagatagc atatcttcac attagtagaa gcctgttaat 5340
117 cagatttttg gaatgaaatt gcaggagcct agcaccgtaa cttctatggc accagttcct 5400
118 agttttcccc atatcccggc tgtagctcgg cctgctacac aagcaattcc ttcgattcaa 5460
119 acatcttcag catcaccagt ttctcaggat atggtcagca acgccgagaa tgcaccagat 5520
120 attaagcctg tggtggtcag tggaatgacg ccaccattgc gtactggtcc tcctggtgga 5580
121 gccaatgtaa atctgcttaa taatctttct caagtccgac aagtcatgag ctctgcagct 5640
122 ctggcaggtg cagcctcatc ggttgggcaa agtgcggttg caatgcatat gtcaaatatg 5700
123 atatcaacag gaatggctac atctttgcct ccttcacaaa ctgtgttttc aactggacag 5760
124 cagggaatta cttcaatggc tggttcgggt gcactaatgg gatctgcaca aacgggacaa 5820
125 agcccgggtc ctaataatgc ctttagtcct caaacaacgt caaatgtcgc ttcaaacctt 5880
126 ggtgtttcac aaccaatgca agggatgaac caaggaagtc attctggagc aatgatgcaa 5940
127 ggtggaattt ccatgaacca aaacatgatg agtggtcttg gtcaaggaaa tgtctcctct 6000
128 ggaacaggtg gaatgatgcc tactccagga gttggccaac aagcgcaatc aggaatacaa 6060
129 caacttggtg gcagtaacag ctcagctcct aatatgcagc tatcacagcc atcatcgggg 6120
130 gctatgcaga cttcacaatc caaatatgtg aaagtctggg aggtaatgtc agtttatctt 6180
131 gtctaaaata acggtgatct tgtgctaact tttacttaca ttttcaaatt catgcaggga 6240
132 aatttatctg ggcaaaggca agggcagcct gttcttatca ccagacttga ggtgtgttta 6300
133 ggggcactta ctatgcactt ttctttcccc ttttctgaat ttactgggat cacatgctta 6360
134 agcacatctt cctctgtaga actttgttga attgttccaa gtagatatta actaacgtct 6420
135 ttgtttatat ttgacagggt taccgaagtg cttctgcctc tgattcgtaa gtttataact 6480
136 aattgaaata tgaaaactgc ttccttacta aaccttgtca ggagagcagt cgactcctta 6540
137 agaaatgatt gtagctgcta aactaatttt tgctttctct ttttgtgcat ctccccaggt 6600
138 tggcagcaaa ctggccacca actatgcaga ttgttcgtct catatcccag gaccatatga 6660
139 ataacaagta atatcttcgt gctatatcct tccttattcc aaatggctca tgggtggatg 6720
140 ttgatttcat gccactaaat atttcacctg actttgcatc aggcaatatg ttggcaaagc 6780
141 tgacttcctt gtgtttcggg ccatgagtca acatgggttc ttaggacaac ttcaggataa 6840
142 aaagcttgtg agtattgttg ataatttatg ccacttgtct cctttttctt attgtttcac 6900
143 tacaaattta ataacaaaat gatgaatggt gtttactggt ttattagata ttaggatgaa 6960
144 ttagatgtta agaatgaaaa tctttgaaaa aatatatgta cttacatctg taaacatgtt 7020
145 ctcggtgaat ctatcaatct cttgctatgt tcaccataca cttaacgatg cctacgcttg 7080
146 tatgtagcct tgttttgatt agcctaatcg tgtgccatac tattgtcatt ttcacgctta 7140
147 gcttttgtgg agttgtatat gataactttg tcatcctccg tattgcagtg tgcagtcatc 7200
148 cagttgccat cacagacgct tcttctctct gtctctgaca aggcttgccg cttgattgga 7260
149 atgctttttcc caggggtaag gaagtactaa gtttaaggtg tctatatatg ttttgcttca 7320
150 cattagtgac tcttgagggt tgttttgttt actcctagga tatggttgtg tttaaaccac 7380
```

```
151 aaattccaaa tcagcaacag cagcagcaac aacaactcca ccagcaacaa caacaacaac 7440
152 agcagatcca gcagcagcag caacaacaac aacacctcca acagcaacag atgccacaac 7500
153 tccagcaaca acaacaacaa caccagcagc aacagcaaca gcagcatcaa ttgtcacagc 7560
154 tccaacatca tcagcagcaa caacaacaac agcagcaaca acagcagcag catcaattga 7620
155 cacagcttca acaccatcat cagcagcagc agcaggcgtc gccgctgaat cagatgcagc 7680
156 agcagacttc gccgctcaat cagatgcagc aacagacttc gcctctgaat cagatgcagc 7740
157 agcaacagca gcctcaacag atggtaatgg gtggtcaagc ttttgcacaa gcccctggaa 7800
158 gatcacaaca aggtggtggt ggagggcagc ctaacatgcc tggagctggc ttcatgggat 7860
159 aaataaaaat atcagcttca gtgctaatta attagattta tcataactta acattctttc 7920
160 tttcttcttt ggtcaactcg atcgtcgcca tggttttaga ctctgtttag ttgtcctttc 7980
161 tgttcttttg agcctgaaaa tggcatgtcc tattctgtat gggtctgacc atttagctac 8040
164 <210> SEQ ID NO: 2
165 <211> LENGTH: 2689
166 <212> TYPE: DNA
167 <213> ORGANISM: Arabidopsis thaliana
169 <400> SEQUENCE: 2
170 atgtcgtcgg aggtgaaaca gctgatcgtc gttgctgaag gcaccgccgc tttgggtcct 60
171 tattggcaaa ccatcgtctc cgactatctc gagaaaatca tcaggtcttt ctgtggcagt 120
172 gagttaaatg gagagaggaa ccctgtttct actgttgagc tatcactggt gatcttcaat 180
173 tctcatggtt catattgtgc ttgcttggta caacggagtg gctggacaag ggatgttgat 240
174 attttcttgc attggctttc ttccatacaa tttggtggtg gtggtttcaa tgaggttgcc 300
175 acagctgaag ggcttgccga agcattgatg atgtttttctc ctccttcagg ccaagctcaa 360
176 ccaagtaacg atctgaaaag acactgtatc ctaatcacag ccagcaatcc tcacatattg 420
177 ccaacacctg tatatcgtcc acgattgcaa aatgtggaac ggaatgagaa tggtgatgcg 480
178 caagctgaga gtcgattatc agatgctgag acagtggctt catattttgc taagtgttct 540
179 gtttctttgt ctgttgtatg tccaaagcag cttccaacaa ttagagcact atacaatgcg 600
180 ggaaagccca atcaacaaag tgcggacttg tcaattgaca cggctaagaa cacattctat 660
181 cttgtcctga tctcggagaa ttttgtggag gcatgtgctg ccttaagtca ttctgctaca 720
182 aatttgccac agactcagag ccctgtgaaa gtggacaggg ccactgttgc tccatctatt 780
183 ccagtcactg ggcaacctcc agctcctgtg tcatcagcca atggacctat tcagaatcgg 840
184 caaccagttt ctgttggacc agttccaact gctactgtga aagttgagcc tagcaccgta 900
185 acttctatgg caccagttcc tagtttttccc catatcccgg ctgtagctcg gcctgctaca 960
186 caagcaattc cttcgattca aacatcttca gcatcaccag tttctcagga tatggtcagc 1020
187 aacgccgaga atgcaccaga tattaagcct gtggtggtca gtggaatgac gccaccattg 1080
188 cgtactggtc ctcctggtgg agccaatgta aatctgctta ataatctttc tcaagtccga 1140
189 caagtcatga gctctgcagc tctggcaggt gcagcctcat cggttgggca aagtgcggtt 1200
190 gcaatgcata tgtcaaatat gatatcaaca ggaatggcta catctttgcc tccttcacaa 1260
191 actgtgtttt caactggaca gcagggaatt acttcaatgg ctggttcggg tgcactaatg 1320
192 ggatctgcac aaacgggaca aagcccgggt cctaataatg cctttagtcc tcaaacaacg 1380
193 tcaaatgtcg cttcaaacct tggtgtttca caaccaatgc aagggatgaa ccaaggaagt 1440
194 cattctggag caatgatgca aggtggaatt tccatgaacc aaaacatgat gagtggtctt 1500
195 ggtcaaggaa atgtctcctc tggaacaggt ggaatgatgc ctactccagg agttggccaa 1560
196 caagcgcaat caggaataca acaacttggt ggcagtaaca gctcagctcc taatatgcag 1620
197 ctatcacagc catcatcggg ggctatgcag acttcacaat ccaaatatgt gaaagtctgg 1680
198 gagggaaatt tatctgggca aaggcaaggg cagcctgttc ttatcaccag acttgagggt 1740
199 taccgaagtg cttctgcctc tgattcgttg gcagcaaact ggccaccaac tatgcagatt 1800
200 gttcgtctca tatcccagga ccatatgaat aacaagcaat atgttggcaa agctgacttc 1860
201 cttgtgtttc gggccatgag tcaacatggg ttcttaggac aacttcagga taaaaagctt 1920
202 tgtgcagtca tccagttgcc atcacagacg cttcttctct ctgtctctga caaggcttgc 1980
```

```
203 cgcttgattg gaatgctttt cccaggggat atggttgtgt ttaaaccaca aattccaaat 2040
204 cagcaacagc agcagcaaca acaactccac cagcaacaac aacaacaaca gcagatccag 2100
205 cagcagcagc aacaacaaca cacctccaa cagcaacaga tgccacaact ccagcaacaa 2160
206 caacaacaac accagcagca acagcaacag cagcatcaat tgtcacagct ccaacatcat 2220
207 cagcagcaac aacaacaaca gcagcaacaa cagcagcagc atcaattgac acagcttcaa 2280
208 caccatcatc agcagcagca gcaggcgtcg ccgctgaatc agatgcagca gcagacttcg 2340
209 ccgctcaatc agatgcagca acagacttcg cctctgaatc agatgcagca gcaacagcag 2400
210 cctcaacaga tggtaatggg tggtcaagct tttgcacaag ccctggaag atcacaacaa 2460
211 ggtggtggtg gagggcagcc taacatgcct ggagctggct tcatgggata aataaaaata 2520
212 tcagcttcag tgctaattaa ttagatttat cataacttaa cattctttct ttcttctttg 2580
213 gtcaactcga tcgtcgccat ggttttagac tctgtttagt tgtcctttct gttcttttga 2640
214 gcctgaaaat ggcatgtcct attctgtatg ggtctgacca tttagctac           2689
216 <210> SEQ ID NO: 3
217 <211> LENGTH: 836
218 <212> TYPE: PRT
219 <213> ORGANISM: Arabidopsis thaliana
221 <400> SEQUENCE: 3
222 Met Ser Ser Glu Val Lys Gln Leu Ile Val Val Ala Glu Gly Thr Ala
223 1               5                   10                  15
224 Ala Leu Gly Pro Tyr Trp Gln Thr Ile Val Ser Asp Tyr Leu Glu Lys
225             20                  25                  30
226 Ile Ile Arg Ser Phe Cys Gly Ser Glu Leu Asn Gly Glu Arg Asn Pro
227         35                  40                  45
228 Val Ser Thr Val Glu Leu Ser Leu Val Ile Phe Asn Ser His Gly Ser
229     50                  55                  60
230 Tyr Cys Ala Cys Leu Val Gln Arg Ser Gly Trp Thr Arg Asp Val Asp
231 65                  70                  75                  80
232 Ile Phe Leu His Trp Leu Ser Ser Ile Gln Phe Gly Gly Gly Gly Phe
233                 85                  90                  95
234 Asn Glu Val Ala Thr Ala Glu Gly Leu Ala Glu Ala Leu Met Met Phe
235             100                 105                 110
236 Ser Pro Pro Ser Gly Gln Ala Gln Pro Ser Asn Asp Leu Lys Arg His
237             115                 120                 125
238 Cys Ile Leu Ile Thr Ala Ser Asn Pro His Ile Leu Pro Thr Pro Val
239     130                 135                 140
240 Tyr Arg Pro Arg Leu Gln Asn Val Glu Arg Asn Glu Asn Gly Asp Ala
241 145                 150                 155                 160
242 Gln Ala Glu Ser Arg Leu Ser Asp Ala Glu Thr Val Ala Ser Tyr Phe
243             165                 170                 175
244 Ala Lys Cys Ser Val Ser Leu Ser Val Val Cys Pro Lys Gln Leu Pro
245             180                 185                 190
246 Thr Ile Arg Ala Leu Tyr Asn Ala Gly Lys Pro Asn Gln Gln Ser Ala
247         195                 200                 205
248 Asp Leu Ser Ile Asp Thr Ala Lys Asn Thr Phe Tyr Leu Val Leu Ile
249     210                 215                 220
250 Ser Glu Asn Phe Val Glu Ala Cys Ala Ala Leu Ser His Ser Ala Thr
251 225                 230                 235                 240
252 Asn Leu Pro Gln Thr Gln Ser Pro Val Lys Val Asp Arg Ala Thr Val
253         .       245                 250                 255
```

VERIFICATION SUMMARY   DATE: 12/28/2005
PATENT APPLICATION: US/10/560,652   TIME: 12:58:45

Input Set : A:\SEQLIST532792000800.txt
Output Set: N:\CRF4\12282005\J560652.raw

```
L:12  M:270 C: Current Application Number differs, Replaced Current Application No
L:12  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:444 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:656
L:636 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:176
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:448
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/28/2005
PATENT APPLICATION: US/10/560,652   TIME: 12:58:45

Input Set : A:\SEQLIST532792000800.txt
Output Set: N:\CRF4\12282005\J560652.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 666
Seq#:15; Xaa Pos. 177,188,451,454,458